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132. Proposed by G. B. M. ZERR, A. M., Ph. D., Professor of Chemistry and Physics, The Temple College, Philadelphia, Pa.

n points are taken at random on the circumference of a given circle. Prove that the chance of the center of the circle lying within the polygon formed by joining these points is $1 - (1/2^{n-2})$.

MISCELLANEOUS.

128. Proposed by J. E. SANDERS, Hackney, Ohio.

The sides of a trapezium are $a=20$, $b=32$, $c=40$, and $d=36$. If c is opposite a , and the diagonals equal, what is the length of either diagonal?

129. Proposed by J. SCHEFFER, A. M., Hagerstown, Md.

How high above the surface of the earth must an observer be elevated at the latitude $\phi (=39^\circ 19')$, the declination of the sun being $\delta (=23^\circ 27')$, in order to see the sun at midnight?

NOTES.

Professor A. G. Greenhill was awarded by the London Mathematical Society its De Morgan Medal for 1902.

Professor W. H. Metzler, of Syracuse University, has been made Fellow of the Royal Society of Edinburgh.

Professor L. L. Locke has been elected Professor of Mathematics in Adelphi College, Brooklyn, New York.

Professor I. L. Fuchs, Professor of Mathematics in the University of Berlin since 1884, and of late editor of *Crelle's Journal*, died April 26th, at the age of sixty-eight years.

Dr. Charles W. M. Black, Instructor in Mathematics in the University of Oregon, and a contributor to the MONTHLY during the first two or three years of its publication, died August 11, at La Grande, Oregon.

Professors Ormond Stone, of the University of Virginia, E. H. Moore, of the University of Chicago, and Frank Morley, of Johns Hopkins University, have been appointed by the executive committee of the Carnegie Institution, as advisors in relation to original research in mathematics.

On July 6th occurred the death of William Lee Harvey, of Portland, Me. Mr. Harvey was born at Maxfield, Me., November 18, 1825. He was born and raised on a farm in the backwoods of Maine, and in his early years had only the advantages of the district schools of that day. He managed to spend a few terms in an academy and thus prepared himself for teaching in the common schools. While in school he acquired a taste for mathematics, and studied and